	Application No.	Applicant(s)
Notice of Allowability	10/709,390 Examiner	HOMANN ET AL. Art Unit
	LAGITITIEI	Alt Offic
	Suzanne E. McDowell	1732
- The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT REOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication is subject.	pplication. If not included on will be mailed in due course. THIS
1. This communication is responsive to paper filed 9/26/06.		
2. The allowed claim(s) is/are 1-20.		
 Acknowledgment is made of a claim for foreign priority unally all blacks. All blacks all blacks. Certified copies of the priority documents have a copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents. 	e been received. e been received in Application No.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date		Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		•
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summar Paper No./Mail D	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date See Continuation Sheet	7. Examiner's Amend	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Staten	nent of Reasons for Allowance
	9.	

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 8/6/04; 4/18/06; 9/26/06.

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: Regarding the method claims, the prior art does not teach or fairly suggest a method of gas assist injection molding by introducing a gas into a plastic material injected into a mold cavity, to form a hollow cavity in the material, the steps of continuing to inject plastic material into the mold cavity until the cavity is filled, packing or filling the plastic material into the mold cavity, and injecting a second volume of gas into the plastic material. the prior art does not teach or fairly suggest, in an apparatus for gas assist injection molding, the following limitations: a sensing device positioned in the mold next to the mold cavity, and which is capable of detecting the presence of plastic material in the mold cavity; a fixed volume reservoir with a first volume of gas; a control mechanism capable of allowing a first volume of gas to flow into the mold cavity when the sensor detects the presence of plastic material in the mold cavity; and a gas controller capable of being used to introduce a second volume of gas into the mold cavity. Prior art such as EP 0950493 A1 actually teaches against the instant claims, because it does not have a sensing device or a controller, and has a spill cavity (20), which is against packing or filling the mold. Additional prior art is Keller et al. (US Patent 6,063,315), which controls the injection of plastic and gas by a predetermined time interval, and is programmed to close the gate valve (68) prior to opening the gas control valves (78, 80, 82). Rather than anticipating the instant claims, these references actually teach against the instant claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suzanne E. McDowell whose telephone number is (571) 272-1205. The examiner can normally be reached on MWF 8:00am-6:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Christina Johnson can be reached on (571) 272-1176. The fax phone number for the organization where

this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished applications is available

through Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer

Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR

CANADA) or 571-272-1000.

Suzanne E. McDowell Primary Examiner

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